



Inspectorate America  
104 Thadeus Street  
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✓ file

## QUALITY CERTIFICATE

Vessel	NORMAN MCLEOD	Port	PORTSMOUTH, NH	Report	PL03-230
Customer	SPRAGUE ENERGY	Date	April 23, 2003	Reference	
Operation	ANALYSIS	Terminal	SPRAGUE ENERGY	Sample #	367269

Name of material being tested

#6 FUEL OIL

Description of sample source

TANK 1

Samples Drawn by (company)

INSPECTORATE AMERICA

Samples Tested by (company)

INSPECTORATE AMERICA

Tests being Performed	Test method	Sample Source
GRAVITY, API	ASTM D 4052	11.1
FLASH POINT, F.	ASTM D 93B	200+
SULPHUR, % WT.	AVERAGE	1.82
VISCOSITY, SSF, 122F	ASTM D 445/2161	169.0
POUR POINT, F.	ASTM D 97	42.8
WATER & SEDIMENT, % VOL.	ASTM D 976	0.1
ASH, % WT.	ASTM D 482	0.068
ASPHALTINES, %WT	IP 143	6.95
BTU'S PER POUND	ASTM D 4868	18,305
BTU'S PER GALLON	CONVERSION	151,273
VANADIUM, PPM	IP 95	14
SODIUM, PPM	IP 95	10
NITROGEN, %WT	ASTM D 3228	0.388
CARBON RESIDUE % WT.	ASTM D 4530	9.73
SULPHUR, % WT.	ASTM D 4294	
	UPPER	1.90
	MIDDLE	1.78
	LOWER	1.78

LAB REV 1-98

Inspectorate America Corp (Portland Me.)

THE ATTACHED CERTIFICATE REPRESENTS THE PRODUCT INSPECTED BY THE INSPECTION SERVICE ON THE DATE STATED ON THE CERTIFICATE IN THE TANK STATED BY THE INSPECTION SERVICE. SPRAGUE REPRESENTS THAT ANY PRODUCT IT MAY SELL AT THE RACK MAY DIFFER FROM SUCH INSPECTION CERTIFICATE BUT SUCH PRODUCT SHALL MEET THE SPECIFICATIONS AS MAY BE REQUIRED BY ANY APPLICABLE REGULATIONS WITHIN THE STATE THAT THE PRODUCT IS SOLD.

cc: file